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Term	Documents
"APPLYING CELLS".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
(3 AND "APPLYING CELLS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	4
(L3 AND "APPLYING CELLS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	4

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*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR*

<u>L4</u>	L3 and "applying cells"	4	<u>L4</u>
<u>L3</u>	L2 and "protein"	14	<u>L3</u>
<u>L2</u>	L1 and "channel"	39	<u>L2</u>
<u>L1</u>	"patterning cells" and "masks"	56	<u>L1</u>

END OF SEARCH HISTORY

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,  
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,  
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 11:26:29 ON  
24 FEB 2003

SEA PATTERN? (W) CELL? AND CHANNEL? AND PROTEIN? AND APPLYING (W) C

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1 FILE IFIPAT

4 FILE USPATFULL

L1

QUE PATTERN? (W) CELL? AND CHANNEL? AND PROTEIN? AND APPLYING (W)

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FILE 'IFIPAT, USPATFULL' ENTERED AT 11:33:06 ON 24 FEB 2003

L2

5 S L1

L3

4 DUP REM L2 (1 DUPLICATE REMOVED)

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2 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX

L1 QUE PATTERN?(W) CELL? AND CHANNEL? AND PROTEIN? AND APPLYING(W) CELL?

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=> s l1

L2 5 L1

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 4 DUP REM L2 (1 DUPLICATE REMOVED)

=> d 1-4

L3 ANSWER 1 OF 4 USPATFULL

AN 2003:51231 USPATFULL

TI Device for monitoring cell motility in real-time

IN Kim, Enoch, Boston, MA, UNITED STATES

Kirk, Gregory L., Winchester, MA, UNITED STATES

Schueller, Olivier, Somerville, MA, UNITED STATES

Ostuni, Emanuele, Watertown, MA, UNITED STATES

PI US 2003036188 A1 20030220

AI US 2002-206111 A1 20020729 (10)

RLI Continuation-in-part of Ser. No. US 2000-709776, filed on 8 Nov 2000,  
PENDING

PRAI US 2001-307886P 20010727 (60)

US 2001-323742P 20010921 (60)

US 2001-328103P 20011011 (60)

US 2001-330456P 20011022 (60)

US 2001-334548P 20011203 (60)

US 2002-363355P 20020312 (60)

US 2002-374799P 20020424 (60)

DT Utility

FS APPLICATION

LN.CNT 3416

INCL INCLM: 435/288.400

INCLS: 435/305.200; 422/102.000

NCL NCLM: 435/288.400

NCLS: 435/305.200; 422/102.000

IC [7]

ICM: C12M001-34

ICS: C12M001-22

L3 ANSWER 2 OF 4 USPATFULL

AN 2003:44738 USPATFULL

TI Device for arraying biomolecules and for monitoring cell motility in  
real-time

IN Kim, Enoch, Boston, MA, UNITED STATES

Kirk, Gregory L., Winchester, MA, UNITED STATES

Schueller, Olivier, Somerville, MA, UNITED STATES

Ostuni, Emanuele, Watertown, MA, UNITED STATES

PI US 2003032048 A1 20030213

AI US 2002-206536 A1 20020729 (10)

RLI Continuation-in-part of Ser. No. US 2000-709776, filed on 8 Nov 2000,

PENDING

PRAI US 2001-307886P 20010727 (60)  
US 2001-323742P 20010921 (60)  
US 2001-328103P 20011011 (60)  
US 2001-330456P 20011022 (60)  
US 2001-334548P 20011203 (60)  
US 2002-363355P 20020312 (60)  
US 2002-374799P 20020424 (60)

DT Utility  
FS APPLICATION

LN.CNT 3366

INCL INCLM: 435/006.000  
INCLS: 435/287.200; 427/002.110; 347/084.000

NCL NCLM: 435/006.000  
NCLS: 435/287.200; 427/002.110; 347/084.000

IC [7]  
ICM: C12Q001-68  
ICS: B05D003-00; B41J002-17; C12M001-34

L3 ANSWER 3 OF 4 USPATFULL

AN 2003:42886 USPATFULL

TI Method of making device for arraying biomolecules and for monitoring  
cell motility in real-time

IN Kim, Enoch, Boston, MA, UNITED STATES.  
Kirk, Gregory L., Winchester, MA, UNITED STATES  
Schueller, Olivier, Somerville, MA, UNITED STATES  
Ostuni, Emanuele, Watertown, MA, UNITED STATES

PI US 2003030184 A1 20030213

AI US 2002-206329 A1 20020729 (10)

RLI Continuation-in-part of Ser. No. US 2000-709776, filed on 8 Nov 2000,  
PENDING

PRAI US 2001-307886P 20010727 (60)  
US 2001-323742P 20010921 (60)  
US 2001-328103P 20011011 (60)  
US 2001-330456P 20011022 (60)  
US 2001-334548P 20011203 (60)  
US 2002-363355P 20020312 (60)  
US 2002-374799P 20020424 (60)

DT Utility  
FS APPLICATION

LN.CNT 3306

INCL INCLM: 264/325.000  
INCLS: 435/288.400; 156/242.000

NCL NCLM: 264/325.000  
NCLS: 435/288.400; 156/242.000

IC [7]  
ICM: B29C043-00

L3 ANSWER 4 OF 4 IFIPAT COPYRIGHT 2003 IFI DUPLICATE 1

AN 10055723 IFIPAT;IFIUDB;IFICDB

TI CELL PATTERNING TECHNIQUE

IN Duffy David C; Jackman Rebecca J; Kane Ravi; Ostuni Emanuele; Whitesides  
George M

PA Unassigned Or Assigned To Individual (68000)

PI US 2001055882 A1 20011227

AI US 2001-808745 20010315

PRAI US 2000-190399P 20000317 (Provisional)

FI US 2001055882 20011227

DT Utility; Patent Application - First Publication

FS CHEMICAL  
APPLICATION

CLMN 45

GI 16 Figure(s).  
FIG. 1 shows a schematic diagram of lift-off membrane (masking system)

patterning to **pattern cells** onto a surface of an article according to the invention;

FIG. 2 shows a schematic diagram for lift-off membrane patterning involving a pre-coated masking system according to the invention;

FIG. 3 shows a schematic diagram for the fabrication of a masking system for use in the invention;

FIG. 4 shows a photocopy of a scanning electron micrograph of a masking system for use in the invention having **channels** shaped as holes having a diameter of about 100  $\mu\text{m}$ ;

FIG. 5A shows a photocopy of a fluorescence micrograph displaying comparative results of completely coating a substrate with a cell-adhesion **protein** followed by the addition of cells over the entire assembly;

FIG. 5B shows a photocopy of a fluorescence micrograph of the cells adhered selectively to the surface of the substrate;

FIG. 6A shows a photocopy of a fluorescence micrograph displaying a pattern of fibronectin after peeling the masking system in a process of the invention;

FIG. 6B shows a photocopy of a fluorescence micrograph displaying a pattern of cells adhered to circular islands of fibronectin of FIG. 6A.

FIG. 7A shows a photocopy of an optical micrograph of cells patterned on circular islands having a diameter of about 100  $\mu\text{m}$  according to the invention;

FIG. 7B shows a photocopy of an optical micrograph of cells patterned on square islands having a sides of a length of about 100  $\mu\text{m}$  according to the invention;

FIG. 8A shows a photocopy of a phase-contrast micrograph and a fluorescence micrograph of cells patterned with a BSA precoated membrane for features having a diameter of 250  $\mu\text{m}$  in a process of the invention;

FIG. 8B shows a photocopy of a phase-contrast micrograph and a fluorescence micrograph of cells patterned without a BSA precoated membrane for features having a diameter of 250  $\mu\text{m}$ ;

FIG. 8C shows a phase-contrast micrograph and a fluorescence micrograph of cells patterned with a BSA pre-coated membrane for features having a diameter of 100  $\mu\text{m}$ ;

FIG. 8D shows a phase-contrast micrograph and a fluorescence micrograph of cells patterned without a BSA pre-coated membrane for features having a diameter of 100  $\mu\text{m}$ ;

FIG. 8E shows a phase-contrast micrograph of a surface of the membrane removed from the process of FIG. 8B, showing attached cells; and

FIGS. 9A-D show photocopies of scanning electron micrographs displaying the results of cell spreading after (a) 7 h, (b) 8.2 h, (c) 9.5 h, and (d) 11 h.

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